

CLAIMS

What is claimed is:

1. A method of processing data, comprising:
detecting, buffering, and decoding data at a target location on an optical recording medium;
checking a CLV speed of a drive for the optical recording medium, adjusting a CAV speed of the drive for the optical recording medium, and retrying data detection, data buffering, and data decoding if one of the data detection, data buffering, and data decoding fail; and
transmitting the decoded data to a host computer if the data detection, data buffering, and data decoding are performed successfully.
2. The method of claim 1, wherein the adjusting of the CAV speed and retrying of the data detection, data buffering, and data decoding further comprises:
adjusting the CAV speed of the optical recording medium to a lowest speed if the CLV speed of the optical recording medium is above a predetermined speed;
retrying data detection, data buffering, and data decoding at the lowest CAV speed; and
retrying data detection, data buffering, and data decoding while reducing an offset between the target location and a reference location if one of the data detection, data buffering, and data decoding fail.
3. The method of claim 2, wherein in the retrying of the data detection, data buffering, and data decoding, the data detection, data buffering, and data decoding are retried while reducing the offset from the target location and the reference location by a predetermined distance.
4. The method of claim 1, wherein if one of the data detection, data buffering, and data decoding fail in the adjusting of the CAV speed and the retried data detection, data buffering, and data decoding, the determination of the successful data detection, data buffering, and data decoding performance comprises:
retrying data detection, data buffering, and data decoding, while reducing the CLV speed of the drive for the optical recording medium.

5. The method of claim 4, wherein in the retrying of the data detection, data buffering, and data decoding while reducing the CLV speed of the drive, data detection, data buffering, and data decoding are performed until the CLV speed of the optical recording medium reaches the lowest CLV speed.

6. The method of claim 4, wherein if one of the data detection, data buffering, and data decoding fail, the drive transmits information indicating an error to the host computer.

7. A data processing system, comprising:
a host having an input and a CPU; and
a drive for reading from and/or writing to a recording medium, including a controller, a driver and an interface interfacing with the host through the input,
wherein the controller checks a CLV of the drive for the recording medium, controls an adjustment of a CAV speed of the drive for the recording medium, and controls another attempt to detect data, buffer data, and/or decode data from the recording medium when a previous attempt failed.

8. The data processing system of claim 7, wherein the controller controls the transmission of decoded data to the host computer if the subsequent attempt of data detection, data buffering and/or data decoding are performed successfully.

9. The data processing system of claim 7, wherein the adjusting of the CAV speed and subsequent attempt of the data detection, data buffering, and/or data decoding further comprises:

adjusting the CAV speed of the recording medium to a lowest speed if the CLV speed of the recording medium is above a predetermined speed;

subsequently attempting data detection, data buffering, and/or data decoding at the lowest CAV speed; and

subsequently attempting data detection, data buffering, and/or data decoding while reducing an offset between a target location and a reference location if one of the data detection, data buffering, and data decoding fail.

10. The data processing system of claim 9, wherein in the subsequent attempt of the data detection, data buffering, and/or data decoding, the data detection, data buffering, and/or data decoding are subsequently attempted while reducing the offset from the target location and the reference location by a predetermined distance.

11. The data processing system of claim 7, wherein if one of the data detection, data buffering, and data decoding fail in the adjusting of the CAV speed and the subsequently attempted data detection, data buffering, and/or data decoding, a determination of a successful data detection, data buffering, and/or data decoding performance comprises:

subsequently attempting data detection, data buffering, and data/or decoding, while reducing the CLV speed of the drive for the recording medium.

12. The data processing system of claim 11, wherein in the subsequent attempt of the data detection, data buffering, and/or data decoding while reducing the CLV speed of the drive, data detection, data buffering, and/or data decoding are performed until the CLV speed of the recording medium reaches the lowest CLV speed.

13. The data processing system of claim 4, wherein if one of the data detection, data buffering, and data decoding fail, the drive transmits information indicating an error to the host.

14. A medium, comprising computer readable code controlling an operation of a drive, to:

detect, buffer, and/or decode data at a target location on a recording medium;
check a CLV speed of the drive for the recording medium, adjust a CAV speed of the drive for the recording medium, and retry data detection; data buffering, and/or data decoding if one of the data detection, data buffering, and data decoding fail; and
transmit the decoded data to a host computer if the data detection, data buffering, and data decoding are performed successfully.

15. The medium of claim 14, wherein the adjusting of the CAV speed and retrying of the data detection, data buffering, and data/or decoding further comprises the computer readable code controlling an:

adjusting of the CAV speed of the recording medium to a lowest speed if the CLV speed of the recording medium is above a predetermined speed;

retrying of the data detection, data buffering, and/or data decoding at the lowest CAV speed; and

retrying of the data detection, data buffering, and/or data decoding while reducing an offset between the target location and a reference location if one of the data detection, data buffering, and data decoding fail.

16. The medium of claim 15, wherein in the retrying of the data detection, data buffering, and/or data decoding the data detection, data buffering, and data decoding are retried while reducing the offset from the target location and the reference location by a predetermined distance.

17. The medium of claim 14, wherein if one of the data detection, data buffering, and data decoding fail in the adjusting of the CAV speed and the retried data detection, data buffering, and/or data decoding, the determination of the successful data detection, data buffering, and/or data decoding performance comprises:

controlling a retrying of the data detection, data buffering, and/or data decoding, while reducing the CLV speed of the drive for the optical recording medium.

18. The medium of claim 17, wherein in the retrying of the data detection, data buffering, and/or data decoding while reducing the CLV speed of the drive, data detection, data buffering, and/or data decoding are controlled to perform until the CLV speed of the optical recording medium reaches the lowest CLV speed.

19. The method of claim 17, wherein if one of the data detection, data buffering, and data decoding fail, the drive is controlled to transmit information indicating an error to the host computer.